ODS 5488

OBSTRUCTION DATA SHEET

ODS 5488
HUNTSVILLE INTERNATIONAL - CARL T. JONES FIELD
HUNTSVILLE, ALABAMA

DIGITIZED FROM

OC 5488
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OBSTRUCTION DATA SHEET

The Obstruction Data Sheet (ODS) provides digital obstruction and runway data for use in aircraft arrival and departure planning. This information has been obtained using field survey and photogrammetric methods by the Photogrammetry Branch of the National Ocean Service in accordance with Federal Aviation Regulations Part 77 (FAR-77), "Objects Affecting Navigable Airspace" and FAA Nr. 405, "Specifications - Airport Obstruction Chart and Related Products."

The ODS is a derivative of the Airport Obstruction Chart (OC). The source OC is indicated on the ODS cover. All objects, both obstructing and nonobstructing, that carry an elevation on the OC are listed in the ODS. The ODS (and OC) depict a representation of objects that existed at the time of the OC field survey.

ODS information is arranged as follows:

1. Objects located in FAR-77 approach (including supplemental approaches if present) or primary areas are listed with the associated runway (reference runway). For example, all objects in the Runway 9R approach or primary are listed with Runway 9R. Distances to these objects are computed from both the physical end and threshold of Runway 9R. Objects in the Runway 27L approach or primary are listed with Runway 27L. (Objects in the common 9R/27L primary area are listed with both runways.)

2. All objects not included in "1" above are listed with the Airport Reference Point (ARP).

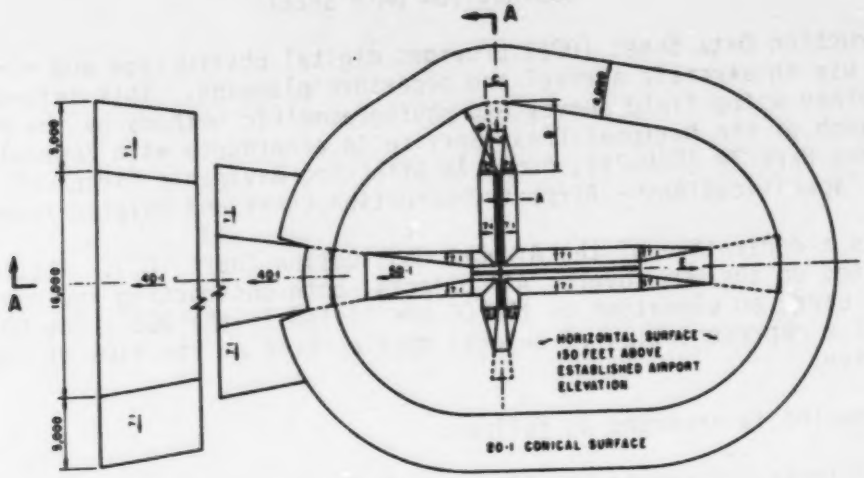
3. Runway configuration and runway lengths, widths, and elevations are presented on the ODS last page.

The FAR-77 imaginary approach surfaces for which the obstruction surveys were performed are coded in the ODS as follows (see footnote 2 on page 3):

A(V) ..... Utility runway - visual approach only
A(NP) .... Utility runway - nonprecision instrument approach
B(V) ..... Nonutility runway - visual approach only
C ..... Nonutility runway - nonprecision instrument approach with visibility minimums greater than 3/4 mile
D ..... Nonutility runway - nonprecision instrument approach with visibility minimums as low as 3/4 mile
PIR ..... Precision instrument runway
SUPLC ... Supplemental C underlying a B(V)

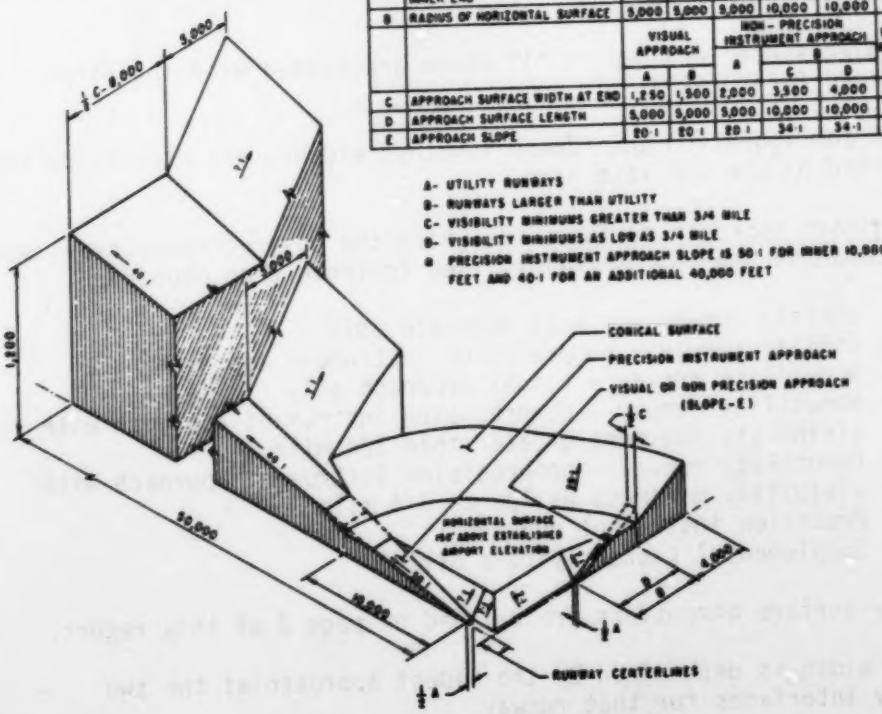
FAR-77 imaginary surface dimensions are defined on page 2 of this report.

Primary surface width is determined by the widest approach at the two approach/primary interfaces for that runway.



DIM	ITEM	DIMENSIONAL STANDARDS (FEET)					
		VISUAL RUNWAY		NON-PRECISION INSTRUMENT RUNWAY			PRECISION INSTRUMENT RUNWAY
		A	B	A	C	D	
A	WIDTH OF PRIMARY SURFACE AND APPROACH SURFACE WIDTH AT INNER END	250	500	500	500	1,000	1,000
B	RADIUS OF HORIZONTAL SURFACE	5,000	5,000	5,000	10,000	10,000	10,000
		VISUAL APPROACH		NON-PRECISION INSTRUMENT APPROACH			PRECISION INSTRUMENT APPROACH
		A	B	A	C	D	
C	APPROACH SURFACE WIDTH AT END	1,250	1,500	2,000	3,500	4,000	16,000
D	APPROACH SURFACE LENGTH	5,000	5,000	5,000	10,000	10,000	*
E	APPROACH SLOPE	20:1	20:1	20:1	34:1	34:1	*

A- UTILITY RUNWAYS
B- RUNWAYS LARGER THAN UTILITY
C- VISIBILITY MINIMUMS GREATER THAN 3/4 MILE
D- VISIBILITY MINIMUMS AS LOW AS 3/4 MILE
* PRECISION INSTRUMENT APPROACH SLOPE IS 50:1 FOR INNER 10,000 FEET AND 40:1 FOR AN ADDITIONAL 40,000 FEET



ISOMETRIC VIEW OF SECTION A-A

FAR-77 CIVIL AIRPORT IMAGINARY SURFACES

ANNOTATION OF ODS DATA FORMAT

OC XXXX

AIRPORT ELEVATION XXXX

X^{1}	X^{2}	XXXX/XXXX[3]	XXXXXX.XXX[4]	XXXXXXX.XXX[4]	XXXXXXX[5]		XXXX/XXXX[6]	XXXXXX.XXX[7]	XXXXXXX.XXX[7]				
OBJECT		LAT	LONG	A[8]	ELEV[9]	AGL[10]	HAR[11]	HAT[11]	HAA[11]	DEND[12]	DTHR[12]	DCLN[12]	PNTR[13]
XXXXXXXXXX		XXXXXX.XXX	XXXXXXX.XXX	XX	XXXX	XXXX	XXX	XXX	XXX	XXXXX	XXXXX	XXXX	XXXX
XXXXXXXXXX		XXXXXX.XXX	XXXXXXX.XXX	XX	XXXX	XXXX	XXX	XXX	XXX	XXXXX	XXXXX	XXXX	XXXX

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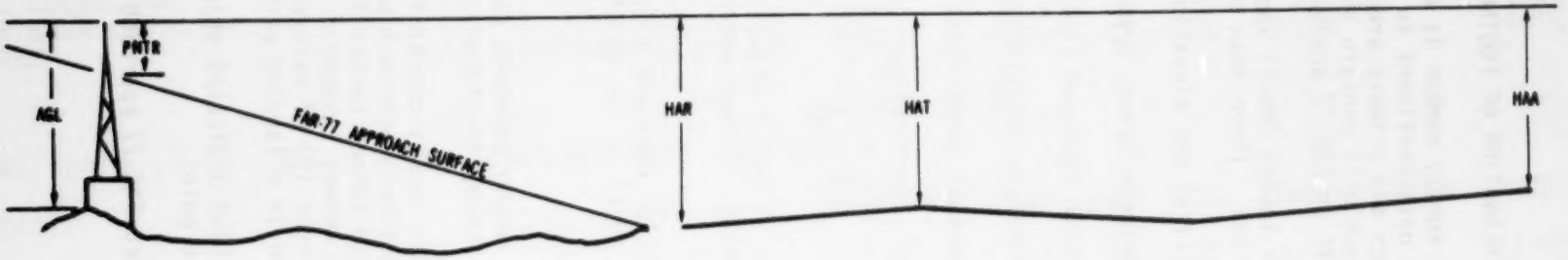

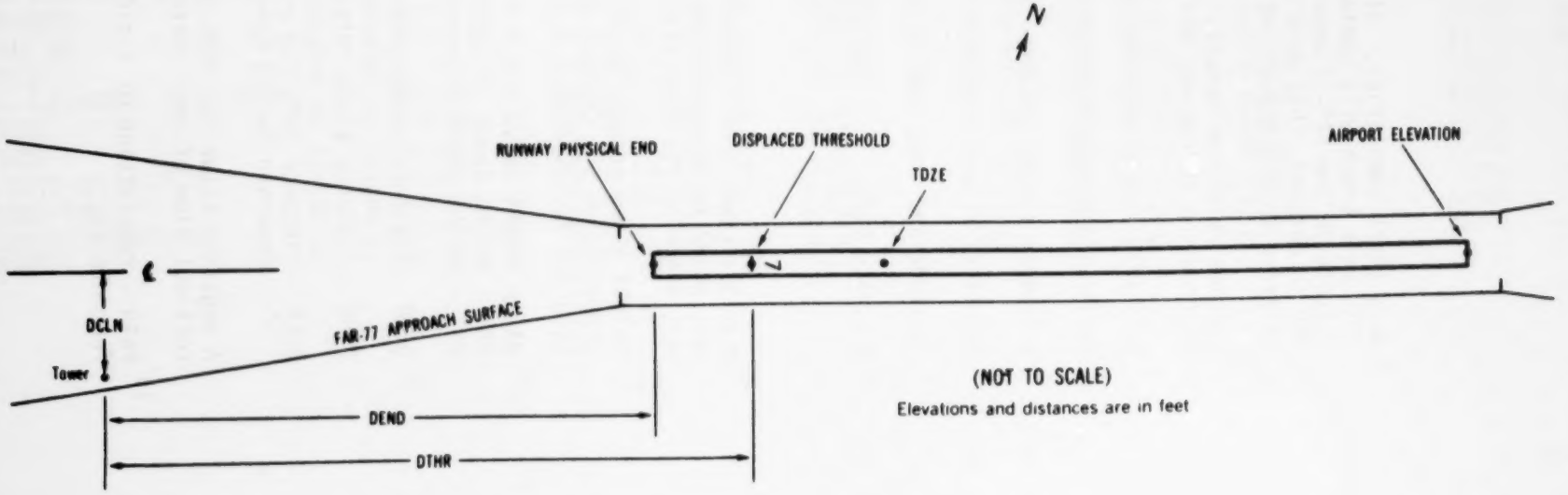

(NOT TO SCALE)

Elevations and distances are in feet

EXPLANATION OF FOOTNOTES

[1] Data block identifier. If a runway number is entered (reference runway), this data block will contain data pertinent to the reference runway and to objects in the FAR-77 approach and primary area of the reference runway. If ARP is entered, this data block will contain the ARP position and data relative to all objects not in an FAR-77 approach or primary area.

[2] For the reference runway, the lowest FAR-77 approach surface for which an obstruction survey was performed. (More than one surface may be surveyed.)

[3] Reference runway approach physical end elevation/touchdown zone elevation

[4] Latitude and longitude of reference runway approach physical end

[5] Reference runway geodetic azimuth reckoned clockwise from south

[6] Reference runway displaced threshold elevation/touchdown zone elevation

[7] Latitude and longitude of reference runway displaced threshold

[8] Accuracy Code:

Horizontal	Vertical
1 = 20	A = 2
2 = 40	B = 5
	C = 20

[9] Mean Sea Level (MSL) elevation at top of object. This value includes 15 feet added to noninterstate roads, 17 feet added to interstate roads, and 23 feet added to railroad tracks.

[10] Height above ground level (AGL). AGLs are provided only for those objects appearing on the OC that are equal to, or greater than, 200 feet AGL. AGL accuracy is ±10 feet.

[11] HAA - Height above airport
HAR - Height above reference runway approach physical end
HAT - Height above reference runway touchdown zone elevation

[12] DEND - Distance along reference runway centerline from point perpendicular to object to reference runway approach physical end
DTHR - Distance along reference runway centerline from point perpendicular to object to reference runway threshold
DCLN - Distance left (L) or right (R) of reference runway centerline as observed facing forward in a landing aircraft.

A negative value for DEND or DTHR indicates object is in primary area on roll-out side of zero distance point.

[13] PNTR - Penetration of indicated FAR-77 approach or primary surface (see footnote 2).

OC5488

AIRPORT ELEVATION 629

36R C 592/599 343746.784N 0864557.362W 1805651

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
TREE	343904.46	0864551.95	1A	614		22	15	-15	-7859		322R	5
TREE	343902.74	0864552.46	1A	614		22	15	-15	-7685		282R	6
OL LIGHTED WINDSOCK	343900.94	0864558.68	1A	616		24	17	-13	-7494		234L	8
TREE	343856.32	0864551.09	1A	618		26	19	-11	-7038		407R	11
ROD ON OL GLIDE SLOPE	343855.31	0864558.99	1A	628		36	29	-1	-6924		250L	21
GROUND	343825.77	0864551.23	1A	613		21	14	-16	-3950		447R	13
OL LIGHTED WINDSOCK	343751.70	0864600.09	1A	604		12	5	-25	-494		236L	11
OL LOCALIZER	343733.94	0864557.62	1A	590		-2	-9	-39	1299		0L	-34
ANTENNA ON BUILDING	343733.91	0864600.47	1A	596		4	-3	-33	1305		238L	-29
TREE	343714.44	0864603.60	1A	652		60	53	23	3278		467L	-31

18L PIR 609/609 343905.899N 0864555.779W 0005652

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
OL LIGHTED WINDSOCK	343751.70	0864600.09	1A	604		-5	-5	-25	-7506		236R	11
GROUND	343825.77	0864551.23	1A	613		4	4	-16	-4050		447L	13
ROD ON OL GLIDE SLOPE	343855.31	0864558.99	1A	628		19	19	-1	-1075		250R	21
TREE	343856.32	0864551.09	1A	618		9	9	-11	-961		407L	11
OL LIGHTED WINDSOCK	343900.94	0864558.68	1A	616		7	7	-13	-506		234R	8
TREE	343902.74	0864552.46	1A	614		5	5	-15	-314		282L	6
TREE	343904.46	0864551.95	1A	614		5	5	-15	-140		322L	5
LIGHT STANDARD	343915.39	0864549.58	1A	627		18	18	-2	968		502L	3
ROAD (N)	343916.17	0864555.31	1A	623		14	14	-6	1039		22L	-3
LIGHT STANDARD	343917.83	0864603.37	1A	639		30	30	10	1195		654R	10
TREE	343947.14	0864553.02	1A	691		82	82	62	4172		161L	3

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AIRPORT ELEVATION 629

36L PIR 618/622 343750.580N 0864657.136W 1805621

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
OL LIGHTED WINDSOCK	343903.64	0864649.64	1A	655		37	33	26	-7396		505R	27
ROD ON OL GLIDE SLOPE	343859.10	0864700.57	1A	671		53	49	42	-6921		400L	43
ROD ON OL TRANSMISSOMTR	343857.32	0864700.55	1A	641		23	19	12	-6742		396L	14
ROD ON OL GLIDE SLOPE	343802.37	0864650.92	1A	667		49	45	38	-1200		500R	47
TREE	343801.34	0864701.84	1A	631		13	9	2	-1082		411L	12
OL LIGHTED WINDSOCK	343754.01	0864650.98	1A	641		23	19	12	-356		509R	23
TREE	343746.92	0864702.61	1A	627		9	5	-2	377		451L	5
ANTENNA ON BUILDING	343740.83	0864700.20	1A	624		6	2	-5	989		240L	-10

18R PIR 629/629 343909.702N 0864655.566W 0005622

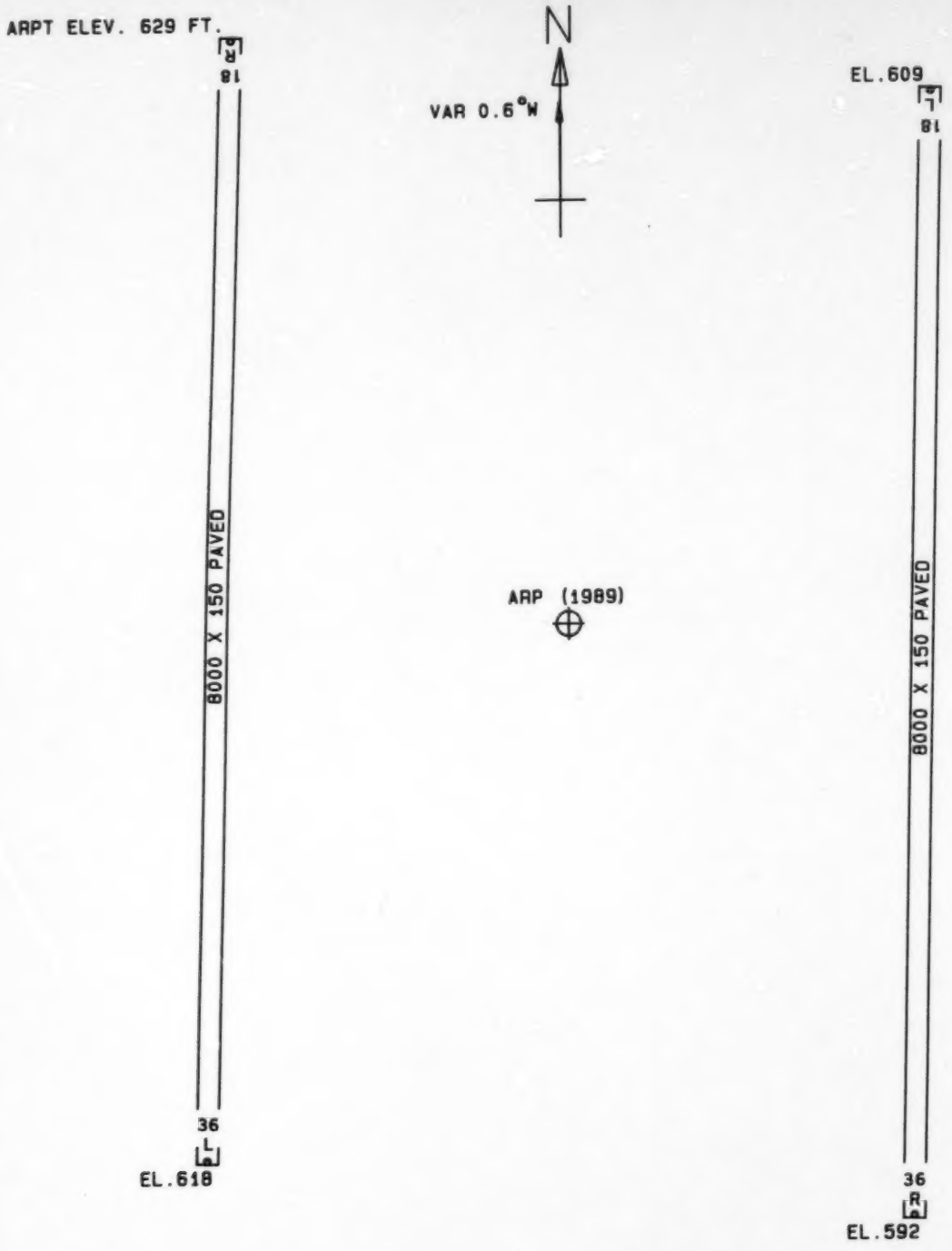
OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
OL LIGHTED WINDSOCK	343754.01	0864650.98	1A	641		12	12	12	-7644		509L	23
TREE	343801.34	0864701.84	1A	631		2	2	2	-6918		411R	12
ROD ON OL GLIDE SLOPE	343802.37	0864650.92	1A	667		38	38	38	-6800		500L	47
ROD ON OL TRANSMISSOMTR	343857.32	0864700.55	1A	641		12	12	12	-1258		396R	14
ROD ON OL GLIDE SLOPE	343859.10	0864700.57	1A	671		42	42	42	-1079		400R	43
OL LIGHTED WINDSOCK	343903.64	0864649.64	1A	655		26	26	26	-604		505L	27
ANTENNA ON BUILDING	343919.12	0864657.89	1A	646		17	17	17	949		209R	2
POLE	343924.99	0864659.40	1A	657		28	28	28	1540		346R	1

OC5488

AIRPORT ELEVATION 629

ARP 343828.241N 0864626.462W

OBJECT	LAT	LONG	A	ELEV	AGL	HAA	MAG BEARING	DISTANCE
OL ANEMOMETER	343838.59	0864636.96	1A	650		21	320 37	1365
OL ANTENNA ON BUILDING	343845.74	0864616.67	1A	738		109	25 25	1949
LIGHT STANDARD	343848.55	0864634.60	1B	666		37	342 17	2163
ANTENNA ON OL CONTROL TWR	343853.98	0864623.19	1B	737		108	6 36	2617
TREE	343801.84	0864609.67	1A	658		29	152 52	3015
OL LIGHTED WINDSOCK	343835.36	0864548.87	1A	631		2	77 42	3223
WINDSOCK ON LIGHT STANDRD	343859.06	0864613.72	1A	656		27	19 28	3292
ROD ON OL AIRPORT BEACON	343820.11	0864708.51	1A	688		59	257 26	3609
ROD ON ASR	343849.59	0864709.76	1A	721		92	301 25	4213
TREE	343746.60	0864703.93	1A	639		10	217 15	5247
LIGHT STANDARD	343914.81	0864545.70	1A	650		21	36 29	5811
OL TANK	343930.77	0864622.76	1B	767		138	3 24	6329
TREE	343717.42	0864610.37	1A	661		32	169 58	7285
TREE	343713.36	0864543.95	1A	659		30	155 28	8363



TOUCHDOWN ZONE RUNWAY	ELEVATION
36R	599
18L	609
36L	622
18R	629

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(NOT TO SCALE)